



Effectiveness and Efficiency of SOVT as a Means to Demonstrate Interoperability

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Outline

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The Current SOVT Process

- **Test event is final step for new installation**
- **Purpose and scope is to install and demonstrate system capabilities**
- **1 shot 1 kill approach (single installation expected)**
- **All future testing evolutions are dependent on SOVT acceptance**



Issues & Concerns

- **The lack of an intermediate level of interoperability testing**
- **Individual systems SOVT does not assess integration/interoperability**
- **High rate of system deficiencies identified**
- **System unavailable during training & operational events**
- **Command resource conflict**
- **Warfighter pays in loss of system capabilities**
- **Sponsor cost impacted**

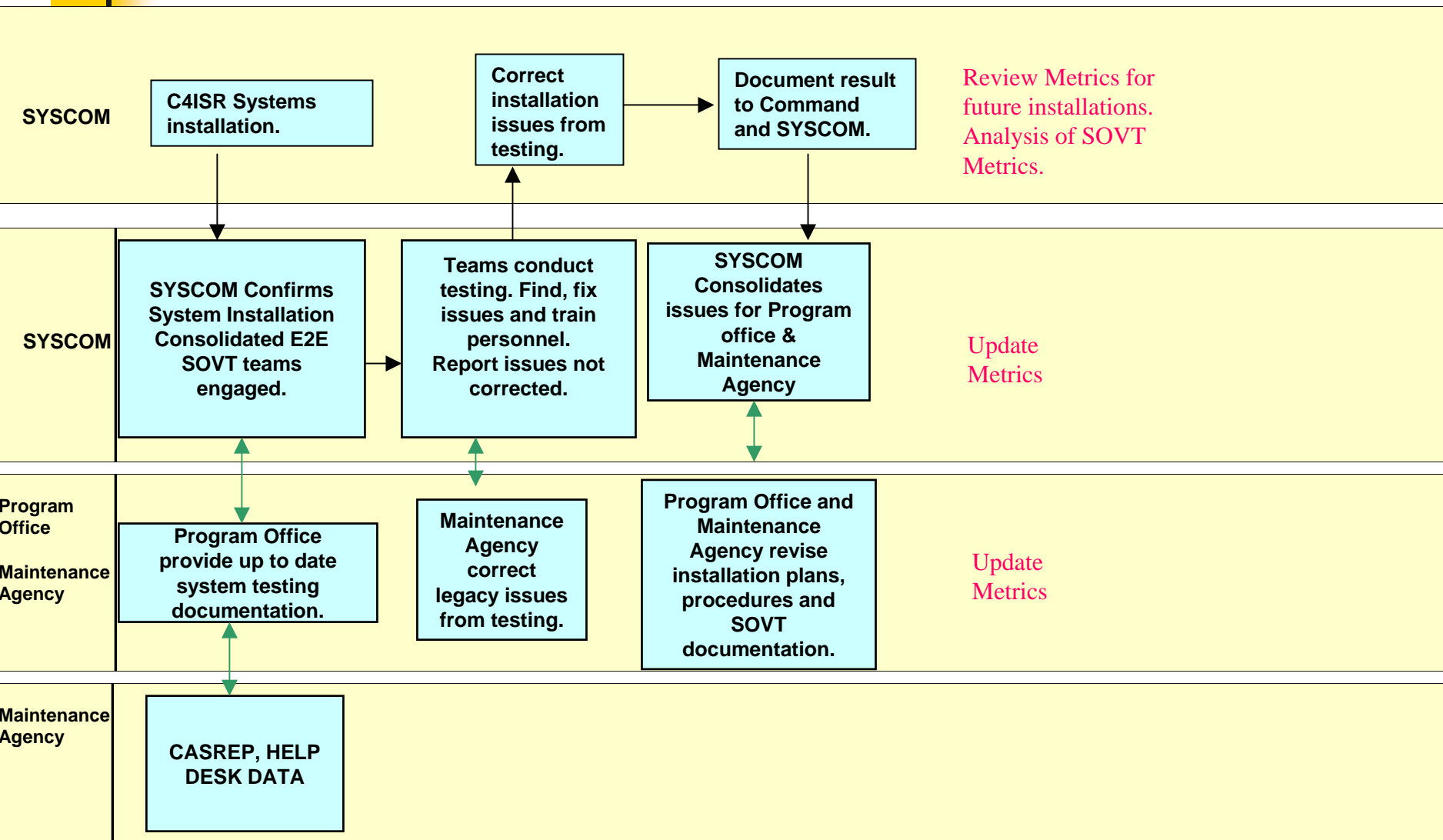


Concept

- **End to End (E2E) SOVT**
 - **End to End SOVT includes high level testing of legacy system**
 - **More granular testing of newly installed systems**
 - **Test team consist of SMEs (Subject Matter Experts), Systems Sponsor, Maintenance & Training Agencies, and Warfighter**
 - **Interoperability testing**
 - **Systems familiarity & training**
 - **Scalable to fit Command requirements/configurations**
 - **Success is based on interaction between all agencies previously mentioned above**



Install and Testing Process





Recommendations

- **Institute interoperability testing during SOVT process**
- **Systems metrics to be collected**
- **Provide metrics for analysis of future SOVT test**
- **Use data collected to better ascertain installation concerns**
- **Data provided for the sponsor's IV&V process prior to field testing**
- **Finally, data will help support future R&D efforts on C4I capability**



Summary

- **Implementing a SOVT process that conducts testing of the entire C4I suite will:**
 - **Insure new system installation has not effected legacy systems**
 - **Prove all systems in the C4I suite are operational**
 - **Decrease the number of STRs (Software Trouble Reports) generated and system down time**
 - **Provide system operators and administrators time to become familiar with system**